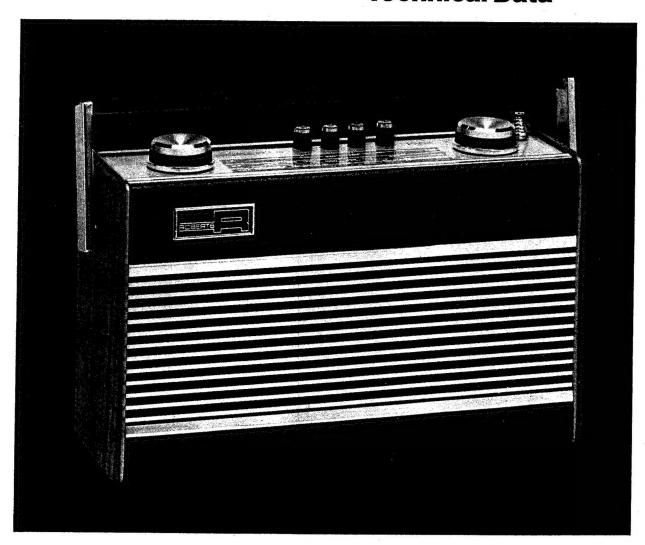


THE ROBERTS **R23**

FM/AM Mains Battery Portable

Technical Data



SPECIFICATION

SEMICONDUCTORS

14 transistors 10 diodes

WAVEBAND COVERAGE

MF 530-1620 kHz LF 150-265 kHz VHF 87.5-104.5 MHz

POWER OUTPUT

450 mW nominal, continuous sinewave

LOUDSPEAKER

100mm (4.0") round, 8 ohms impedance

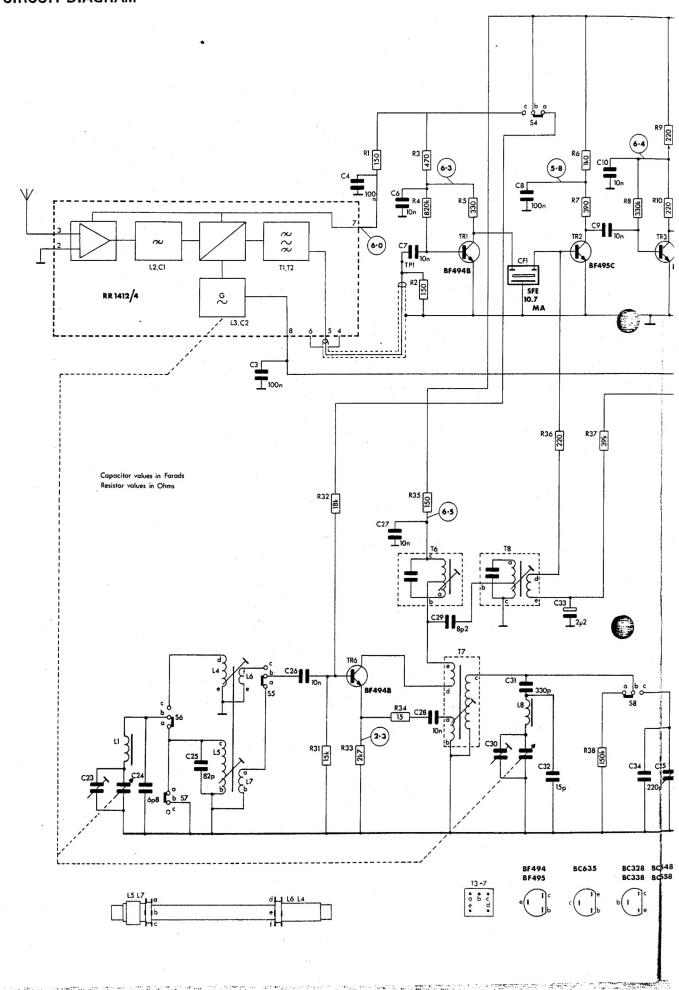
BATTERY

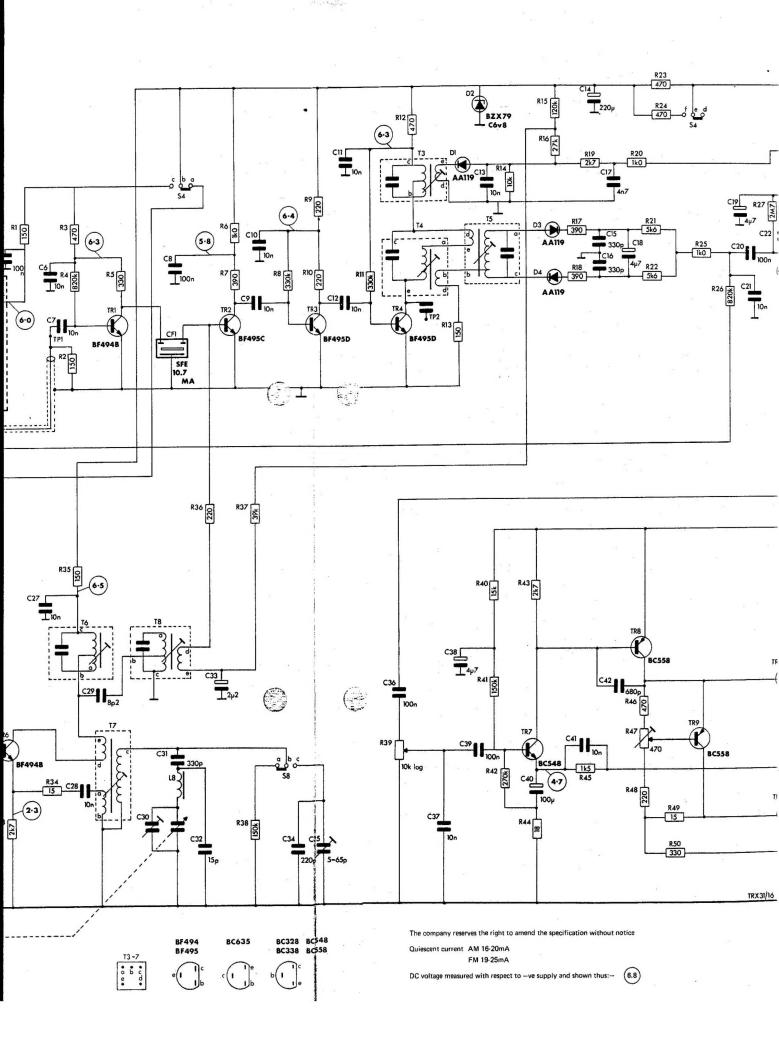
MAINS SUPPLY

9 V PP9 (VT9) type $\,$ 240 V $\,\sim\,$ 50 Hz

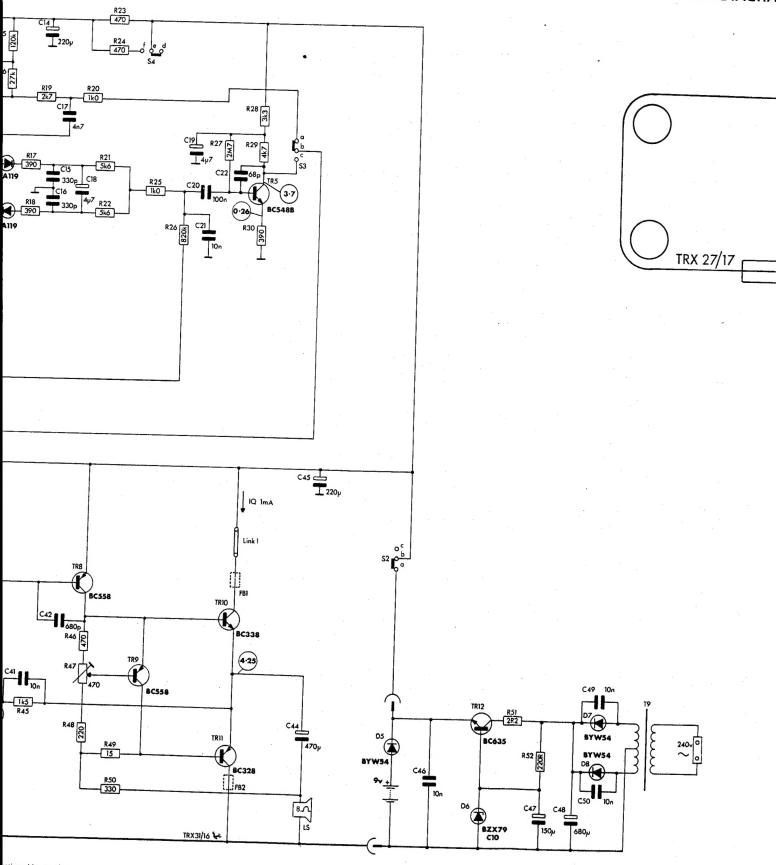
DISMANTLING

- 1. Remove screw securing PSU to rear of case, Remove PSU from bottom of case.
- 2. Remove screws securing fibre strips at either end of case and screw retaining telescopic aerial.
- 3. Ease complete chassis out from top of case.



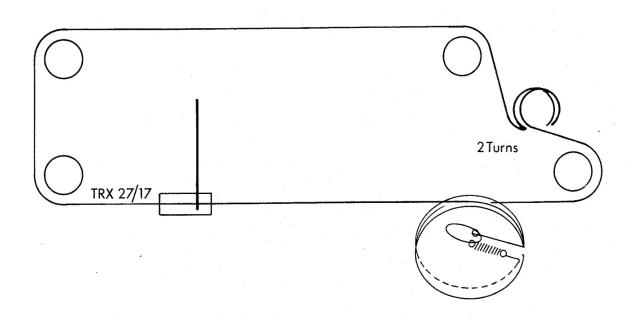


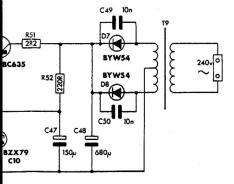
CORD DRIVE DIAGRA

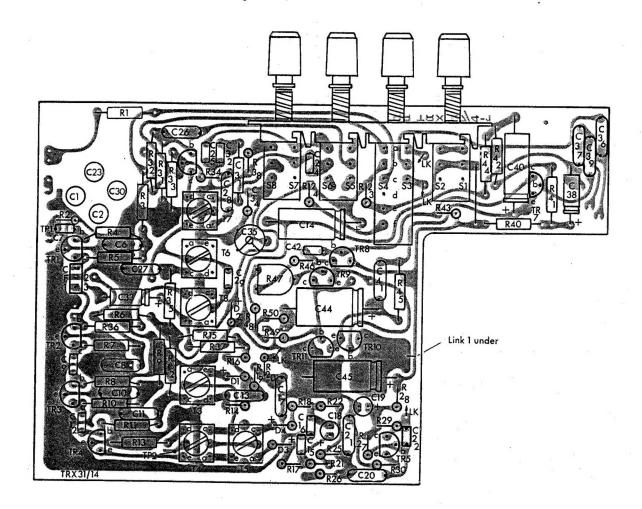


shown thus:- (6.8)

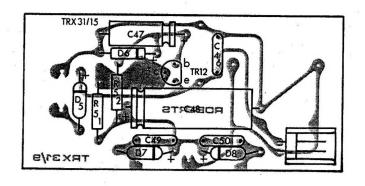
CORD DRIVE DIAGRAM







PSU BOARD LAYOUT



ALIGNMENT

ENSURE: - GANG TO MAX (CLOCK), POINTER COINCIDES WITH DATUM MARKS AT RIGHT HAND END OF SCALE

	WAVE	POINTED		SWEEP/SIGNAL GENERATOR	TOR				
	BAND		INJECT	FREQUENCY	MOD	INDICATOR	CONNECT	ADJUST	INDICATION
-		1	1	I	t	mA Meter	In series with link 1 under Print Board (Vol Min)	R47	1 mA after 1 min at 20°C
7	Ā	1	Across L4	470 kHz	25 kHz Deviation	O'scope Sensitivity 100 mV/Div	S3a & Chassis	T6, T8, T3	Max O/P & Symmetry Adjust I/P to maintain display height of 5 Divs
ო	M	HF Cal Mark	Via Coupling Loup	1500 kHz	30% AM	O'scope or Output Meter	Across Loudspeaker	C30 & C23	Max O/P
4	M	LF Cal Mark	As 3	560 kHz	As 3	As 3	As 3	T7 & L4	Max O/P
ß	5	HF Cal Mark	As 3	260 kHz	As 3	As 3	As 3	35	Max O/P
ဖ	5	LF Cal Mark	As 3	156 kHz	As 3	As 3	As 3	LS	Max O/P
Ľ	0	9							

For 7 & 8 maintain I/P below limiting (-3dB)

	Max O/P & Symmetry	S Curve Zero Crossing at Centre of IF -3dB Bandwidth
	14	Т5
	TP2 via Diode Probe	Junction R25 & R26 & Chassis
	O'scope	As 7
	1 MHz Deviation	As 7
	10.7 MHz*	As 7
	TPI Remove Screened Lead to Tuner	As 7
	1	1
	VHF	VHF
	7	œ

^{*} The actual IF is determined by the Ceramic Resonator